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ABSTRACT OF THE DISCLOSURE

The invention provides methods and compositions relating to semaphorin K1 (sema K1) polypeptides which regulate cellular guidance and physiology, and related nucleic acids. The polypeptides may be produced recombinantly from transformed host cells from the disclosed sema K1 encoding nucleic acids or purified from human cells. The invention provides isolated sema K1 hybridization probes and primers capable of specifically hybridizing with the disclosed sema K1 genes, sema K1-specific binding agents such as specific antibodies, and methods of making and using the subject compositions in diagnosis, therapy and in the biopharmaceutical industry.

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